

Amendments to the Claims

1. (ORIGINAL) A method of manufacturing a layer of a cholesterically ordered polymer material, in which the material is oriented in such a way that the axis of the molecular helix of the cholesterically ordered material extends transversely to the layer, wherein the method comprises the steps:

- a. providing a layer comprising a cholesterically ordered mixture of a low-molecular weight polymerizable material and a high-molecular weight material, which high-molecular weight material comprises a quantity of a convertible group, which in its non-converted and in its converted state determines the pitch of the material to a different extent, the conversion of said high-molecular weight material being inducible by radiation, and the layer absorbs said radiation;
- b. irradiating the layer to convert at least a part of the convertible groups in the irradiated parts of the layer;
- c. letting at least the low-molecular weight material reorient to form the required helical structure;
- d. at least partially polymerizing and/or cross-linking the low-molecular weight material with itself and/or with the high-molecular weight material to freeze in the formed structure.

2. (ORIGINAL) The method according to claim 1 wherein steps b and c are repeated before performing step d.

3. (CURRENTLY AMENDED) The method according to ~~claim 1 or 2~~ claim 1 wherein the low-molecular weight material comprises a nematic acrylate- or methacrylate-functional monomer.

4. (ORIGINAL) The method according to claim 3 wherein at least part of the acrylate- or methacrylate-functional monomer comprises at least two acrylate or methacrylate groups.

5. (CURRENTLY AMENDED) The method according to ~~any one of claims 1-4~~ claim 1 wherein the layer further comprises a dye absorbing at a wavelength at

which the convertible group photo-isomerizes.

6. (CURRENTLY AMENDED) The method according to ~~any one of claims~~
~~1-5~~ claim 1 wherein the layer comprises laterally sections with different main
reflection wavelengths.

7. (CURRENTLY AMENDED) The method according to ~~any one of claims~~
~~1-6~~ claim 1 wherein the layer is a cholesteric color filter.